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Kort præsentation

I am interested in fundamental research questions to evaluate the effect of exercise and rehabilitation programs. Through animal models, studies on healthy subjects and patients, I together with my group aim to better understand the neural control of movement in health and disease.

!!Employments

Professor

Motor Control
Københavns Universitet
København N.
30 sep. 1999 → nu

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Københavns Universitet
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Institut for Neurovidenskab
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5 jan. 2009 → 15 sep. 2020

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Københavns Universitet
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19 jul. 2021 → 18 jul. 2021

Publikationer

A scoping review on muscle cramps and spasms in upper motor neuron disorder-two sides of the same coin?

Therkildsen, Eva Rudjord, Kaster, Pernille Ulrik & Nielsen, Jens Bo, 2024, I: *Frontiers in Neurology*. 15, 9 s., 1360521.

Accurate Monitoring of 24-h Real-World Movement Behavior in People with Cerebral Palsy Is Possible Using Multiple Wearable Sensors and Deep Learning

Novosel, Ivana Bardino, Ritterband-Rosenbaum, Anina, Zampoukis, G., Nielsen, Jens Bo & Lorentzen, Jakob, 2023, I: *Sensors*. 23, 22, 13 s., 9045.

Dynamics of cortical and corticomuscular connectivity during planning and execution of visually guided steps in humans
Spedden, Meaghan Elizabeth, Beck, M. M., West, T. O., Farmer, S. F., Nielsen, Jens Bo & Lundbye-Jensen, Jesper, 2023, I: *Cerebral Cortex*. 33, 2, s. 258–277 20 s.

Oral Motor Impairments Contribute to Weight Status of Adults with Severe Cerebral Palsy

Lyster, Aslak Emil, Hansen, S. L., Andersen, C. T., Nielsen, Jens Bo, Westerterp, K., Wouters, L., Kiens, Bente & Ritterband-Rosenbaum, Anina, 2023, I: *Nutrients*. 15, 24, 14 s., 5042.

Contribution of sensory feedback to soleus muscle activity during voluntary contraction in humans

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Corticomuscular coherence is reduced in relation to dorsiflexion fatigability to the same extent in adults with cerebral palsy as in neurologically intact adults

Forman, C. R., Jacobsen, K. J., Karabanov, Anke Ninija, Nielsen, Jens Bo & Lorentzen, Jakob, 2022, I: *European Journal of Applied Physiology*. 122, 6, s. 1459-1471 13 s.

Editorial: Preterm brain injury: Understanding injurious processes and new strategies for promoting neuroprotection and neuro-repair

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Svane, Christian, Forman, C. R., Rasul, A., Nielsen, Jens Bo & Lorentzen, Jakob, 2022, I: *Ultrasound in Medicine and Biology*. 48, 4, s. 694-701 8 s.

Sense of agency as synecdoche: Multiple neurobiological mechanisms may underlie the phenomenon summarized as sense of agency

Charalampaki, A., Karabanov, Anke Ninija, Ritterband-Rosenbaum, Anina, Nielsen, Jens Bo, Siebner, Hartwig Roman & Christensen, Mark Schram, 2022, I: *Consciousness and Cognition*. 101, 103307.

The effect of cathodal transspinal direct current stimulation on tibialis anterior stretch reflex components in humans

Therkildsen, Eva Rudjord, Nielsen, Jens Bo, Beck, M. M., Yamaguchi, T. & Lorentzen, Jakob, 2022, I: *Experimental Brain Research*. 240, s. 159–171 13 s.

A simple, clinically applicable motor learning protocol to increase push-off during gait: A proof-of-concept

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COpenhagen Neuroplastic TRaining against Contractures in Toddlers (CONTRACT): Protocol of an open-label randomised clinical trial with blinded assessment for prevention of contractures in infants with high risk of cerebral palsy

Willerslev-Olsen, Maria, Lorentzen, Jakob, Røhder, Katrine, Ritterband-Rosenbaum, A., Justiniano, M., Guzzetta, A., Lando, A. V., Jensen, A. M. B., Greisen, Gorm, Ejlersen, S., Pedersen, L. Z., Andersen, B., Liphay Behrend, P. & Nielsen, Jens Bo, 2021, I: *BMJ Open*. 11, 7, e044674.

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Gene expressions in cerebral palsy subjects reveal structural and functional changes in the gastrocnemius muscle that are closely associated with passive muscle stiffness

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Increased Ankle Plantar Flexor Stiffness Is Associated With Reduced Mechanical Response to Stretch in Adults With CP
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Motor-learning based activities may improve functional ability in adults with severe cerebral palsy: A controlled pilot study
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Neuroplasticity at Home: Improving Home-Based Motor Learning Through Technological Solutions. A Review
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Nonsurgical Treatment Options for Muscle Contractures in Individuals With Neurologic Disorders: A Systematic Review With Meta-Analysis
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Bilateral and asymmetrical contributions of passive and active ankle plantar flexors stiffness to spasticity in humans with spinal cord injury
Chen, B., Sangari, S., Lorentzen, Jakob, Nielsen, Jens Bo & Perez, M. A., 2020, I: *Journal of Neurophysiology*. 124, 3, s. 973-984 12 s.

Directed connectivity between primary and premotor areas underlying ankle force control in young and older adults
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Long-term motor skill training with individually adjusted progressive difficulty enhances learning and promotes corticospinal plasticity
Christiansen, L., Larsen, M. N., Madsen, M. J., Grey, M. J., Nielsen, Jens Bo & Lundbye-Jensen, Jesper, 2020, I: *Scientific Reports*. 10, 15 s., 15588.

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Transcranial alternating current stimulation of the primary motor cortex after skill acquisition improves motor memory retention in humans: A double-blinded sham-controlled study

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Are sensorimotor experiences the key for successful early intervention in infants with congenital brain lesion?

Ritterband-Rosenbaum, Anina, Justiniano, M. D., Nielsen, Jens Bo & Christensen, Mark Schram, 2019, I: Infant Behavior and Development. 54, s. 133-139 7 s.

Characterization of torque generating properties of ankle plantar flexor muscles in ambulant adults with cerebral palsy

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Effects on Parental Stress of Early Home-Based CareToy Intervention in Low-Risk Preterm Infants

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Maturation of feedforward toe walking motor program is impaired in children with cerebral palsy

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Suboptimal nutrition and low physical activity are observed together with reduced plasma *brain-derived neurotrophic factor (BDNF)* concentration in children with severe cerebral palsy (CP)

Hansen, S. L., Lorentzen, Jakob, Pedersen, L. T., Hendrich, F. L., Jorsal, M., Pingel, Jessica, Nielsen, Jens Bo & Kiens, Bente, 2019, I: *Nutrients*. 11, 3, 16 s., 620.

Sustained involuntary muscle activity in cerebral palsy and stroke: same symptom, diverse mechanisms

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The development of functional and directed corticomuscular connectivity during tonic ankle muscle contraction across childhood and adolescence

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On Denny-Brown's 'spastic dystonia' - What is it and what causes it?

Lorentzen, Jakob, Pradines, M., Gracies, J. & Nielsen, Jens Bo, jan. 2018, I: *Clinical Neurophysiology*. 129, 1, s. 89-94

Assessment of intersegmental coordination of rats during walking at different speeds - Application of continuous relative phase

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Svane, Christian, Forman, C. R., Nielsen, Jens Bo & Geertsen, S. S., 2018, I: *Experimental Brain Research*. 236, 3, s. 745-753 9 s.

Day-to-day reliability of gait characteristics in rats

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Feedforward neural control of toe walking in humans

Lorentzen, Jakob, Willerslev-Olsen, M., Hüche Larsen, H., Svane, Christian, Forman, C., Frisk, Rasmus Feld, Farmer, S. F., Kersting, U. & Nielsen, Jens Bo, 2018, I: *Journal of Physiology*. 596, 11, s. 2159-2172 14 s.

Impaired Ability to Suppress Excitability of Antagonist Motoneurons at Onset of Dorsiflexion in Adults with Cerebral Palsy

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Impaired muscle growth precedes development of increased stiffness of the triceps surae musculotendinous unit in children with cerebral palsy

Willerslev-Olsen, Maria, Choe Lund, M., Lorentzen, Jakob, Barber, L., Kofoed-Hansen, M. & Nielsen, Jens Bo, 2018, I: *Developmental Medicine and Child Neurology*. 60, 7, s. 672-679 8 s.

Increased central common drive to ankle plantar flexor and dorsiflexor muscles during visually guided gait

Jensen, Peter, Jensen, N. J., Terkildsen, C. U., Choi, J. T., Nielsen, Jens Bo & Geertsen, S. S., 2018, I: *Physiological Reports*. 6, 3, 11 s., e13598.

Microvascularization is not a limiting factor for exercise in adults with cerebral palsy

Andersen, I. T., Harrison, Adrian Paul, Broholm, R., Harder, A., Nielsen, Jens Bo, Bülow, J. & Pingel, Jessica, 2018, I: *Journal of Applied Physiology*. 125, 2, s. 536-544

Modulation of task-related cortical connectivity in the acute and subacute phase after stroke

Larsen, Lisbeth Højkjær, Zibrandtsen, I. C., Wienecke, Troels, Kjær, T. W., Langberg, Henning, Nielsen, Jens Bo & Christensen, Mark Schram, 2018, I: *European Journal of Neuroscience*. 47, 8, s. 1024-1032 9 s.

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Acute exercise improves motor memory consolidation in preadolescent children

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Contribution of sensory feedback to plantar flexor muscle activation during push-off in adults with cerebral palsy
Frisk, Rasmus Feld, Jensen, Peter, Kirk, H., Bouyer, L. J., Lorentzen, Jakob & Nielsen, Jens Bo, 2017, I: Journal of Neurophysiology. 118, 6, s. 3165-3174 10 s.

Convergence of ipsi- and contralateral muscle afferents on common interneurons mediating reciprocal inhibition of ankle plantarflexors in humans
Mrachacz-Kersting, N., Geertsen, S. S., Stevenson, A. J. T. & Nielsen, Jens Bo, 2017, I: Experimental Brain Research. 235, 5, s. 1555-1564 10 s.

Development and aging of human spinal cord circuitries
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Long-term progressive motor skill training enhances corticospinal excitability for the ipsilateral hemisphere and motor performance of the untrained hand
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Muscle disuse caused by botulinum toxin injection leads to increased central gain of the stretch reflex in the rat
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New perspectives on the development of muscle contractures following central motor lesions
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Spatial facilitation of reciprocal inhibition and crossed inhibitory responses to soleus motoneurons during walking
Stevenson, A. J. T., Geertsen, S. S., Nielsen, Jens Bo & Mrachacz-Kersting, N., 2017, *Converging Clinical and Engineering Research on Neurorehabilitation II: Proceedings of the 3rd International Conference on NeuroRehabilitation (ICNR2016), October 18-21, 2016, Segovia, Spain*. Ibáñez, J., González-Vargas, J., Azorín, J. M., Akay, M. & Pons, J. L. (red.). Cham, Switzerland: Springer, s. 1031-1036 6 s. (Biosystems and Biorobotics, Bind 15).

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Treadmill training with an incline reduces ankle joint stiffness and improves active range of movement during gait in adults with cerebral palsy
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A pilot study on early home-based intervention through an intelligent baby gym (CareToy) in preterm infants

Sgandurra, G., Bartalena, L., Cecchi, F., Cioni, G., Giampietri, M., Greisen, Gorm, Herskind, A., Inguaggiato, E., Lorentzen, J., Nielsen, Jens Bo, Orlando, M., Dario, P. & CareToy Consortium, C. C., 2016, I: *Research in Developmental Disabilities*. 53-54, s. 32-42 11 s.

Aldring

Geertsen, S. S. & Nielsen, Jens Bo, 2016, *Fra Tanke til Handling - Bevægelsens Neurobiologi*. Christiansen, L., Geertsen, S. S., Lundbye-Jensen, J. & Nielsen, J. B. (red.). København: Hjerneforum, s. 198-209 12 s.

Basal neurofysiologi

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Botulinum toxin injection causes hyper-reflexia and increased muscle stiffness of the triceps surae muscle in the rat

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Changes in corticospinal drive to spinal motoneurons following tablet-based practice of manual dexterity

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Det autonome nervessystem

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Explosive resistance training increases rate of force development in ankle dorsiflexors and gait function in adults with cerebral palsy

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Forord

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